

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0020	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard East-West Interceptor	U	4.79						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	2.88		2.88	60.11%	0.02			
Encroachments	0.25		0.25	5.22%	0.05	0.03		
Erosion / Bank Caving	0.43	0.03	0.55	11.48%				
<i>Rivers, Channels & Designated Floodways</i>								
Erosion / Bank Caving		0.01	0.04	0.83%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.14	0.01		
<i>LMA Totals:</i>	3.56	0.04	3.72	77.65%	0.21	0.04	0.00	0.00

Unit No. 01 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0020	U	1.75						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.45		0.45	25.78%	0.02			
Encroachments					0.02			
Erosion / Bank Caving		0.03	0.12	6.87%				
<i>Rivers, Channels & Designated Floodways</i>								
Erosion / Bank Caving		0.01	0.04	2.29%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02	0.01		
<i>Unit Totals:</i>	0.45	0.04	0.61	34.94%	0.06	0.01	0.00	0.00

Unit No. 02 East Levee LB	Overall Unit Rating	Total Unit Miles						
ST0020	U	3.05						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	2.43		2.43	79.80%				
Encroachments	0.25		0.25	8.21%	0.03	0.03		
Erosion / Bank Caving	0.43		0.43	14.12%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.12			
<i>Unit Totals:</i>	3.11	0.00	3.11	102.13%	0.15	0.03	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

Waterway			Bank	Unit Miles
Unit No. 01 West Levee			Right	1.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/14/2015 - 04/14/2015		11/06/2015 - 11/06/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	9	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				o	
					o	
DWR ID	DWR_NA0020_01_s _ 2013_9					
Action/Comments						
Inspector Comments: The LMA has the O&M manuals.						

No Photos

LM Start		Rating **	A	Issue No.	10	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	
					°	
DWR ID	DWR_NA0020_01_s _ 2013_10					
Action/Comments						
Inspector Comments: The LMA has adequate flood fight supplies and equipment.						

No Photos

LM Start		Rating **	A	Issue No.	11	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_NA0020_01_s _ 2013_11					
Action/Comments						
Inspector Comments: The LMA completed flood fight training in 2014.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	5
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171577 °	39.171543 °
				-121.760019 °	-121.758291 °
DWR ID	DWR_NA0020_01_s _ 2012_5				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove the vegetation from the landside toe.					

Photo 1 of 1 : FA_2015_ST0020_213_5_20151109_00006.jpg



View of the vegetation along the landslide toe.

LM Start	0.00	Rating **	M	Issue No.	7
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171577 °	39.171481 °
				-121.760019 °	-121.754826 °
DWR ID	DWR_NA0020_01_s _ 2012_7				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_ST0020_213_7_20150910_00004.jpg



View of the vegetation along the w/s toe.

LM Start	0.23	Rating **	M	Issue No.	2
LM End	0.25	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171418 °	39.171408 °
				-121.755963 °	-121.755578 °
DWR ID	DWR_NA0020_01_s _ 2012_2				
Action/Comments					
Landscaping Inspector Comments: Remove the cactus and pine trees from the waterside berm.					

Photo 1 of 2 : FA_2015_ST0020_213_2_20150910_00001.jpg



View of the cactus and pine trees along the waterside berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.23	Rating **	M	Issue No.	2 (cont)	
LM End	0.25	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.171418 °		39.171408 °
				-121.755963 °		-121.755578 °
DWR ID	DWR_NA0020_01_s_2012_2					
Action/Comments						
Landscaping Inspector Comments: Remove the cactus and pine trees from the waterside berm.						

Photo 2 of 2 : FA_2015_ST0020_213_2_20151109_00007.jpg



View of the cactus and pine trees along the waterside berm.

LM Start	0.36	Rating **	M	Issue No.	23
LM End	0.36	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171450 °	39.171450 °
				-121.754058 °	-121.754058 °
DWR ID	DWR_NA0020_01_f_2013_23				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the waterside berm.					

Photo 1 of 1 : FA_2015_ST0020_213_23_20150910_00005.jpg



Remove the prunings from the waterside berm.

LM Start	0.59	Rating **	M	Issue No.	1
LM End	0.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171372 °	39.171372 °
				-121.750000 °	-121.750000 °
DWR ID	DWR_ST0020_01_f_2015_1				
Action/Comments					
Tree or limb					
Inspector Comments: Remove the cactus tree from the waterside slope.					

Photo 1 of 1 : FA_2015_ST0020_213_1_20151109_00008.jpg



View of the cactus tree that has fallen on the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.62	Rating **	U	Issue No.	4
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.171292 °	39.171232 °
				-121.748868 °	-121.748175 °
DWR ID	DWR_NA0020_01_s _ 2012_4				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Repair the erosion along the concrete ditch.					

Photo 1 of 2 : FA_2015_ST0020_213_4_20150910_00002.jpg



Repair the erosion along the concrete ditch before winter.

LM Start	0.62	Rating **	U	Issue No.	4 (cont)
LM End	0.65	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_ST0020_213_4_20151109_00009.jpg



Repair the erosion along the concrete ditch.

LM Start	1.09	Rating **	M	Issue No.	25
LM End	1.09	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.171296 °	39.171296 °
				-121.739779 °	-121.739779 °
DWR ID	DWR_ST0020_01_f _ 2015_25				
Action/Comments					
Inspector Comments: FS_ID:45228					
DS_ID:20115					
EP_NO: N/A					
FS_HLM: 1.085					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 2 : UCIP_FA_2015_3914.jpg



Flapgate installed on WS end.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.09	Rating **	M	Issue No.	25 (cont)	
LM End	1.09	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.171296 °	39.171296 °	
				-121.739779 °	-121.739779 °	
DWR ID	DWR_ST0020_01_f_2015_25					
Action/Comments						
Inspector Comments: FS_ID:45228 DS_ID:20115 EP_NO: N/A FS_HLM: 1.085 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.Pipe not permitted and has no flap gate.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 New flapgate installed on WS pipe end.11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 8-inch corrugated metal drain pipe through the levee 1.5-feet below the crown. Unable to locate the inlet. FS Date: 05/14/2015						

Photo 2 of 2 : UCIP_FA_2015_3915.jpg



Pipe at outlet on WS crown.

LM Start	1.09	Rating **	U	Issue No.	26
LM End	1.09	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.171301 °	39.171301 °
				-121.739799 °	-121.739799 °
DWR ID	DWR_ST0020_01_f_2015_26				
Action/Comments					
Inspector Comments: FS_ID:45227 DS_ID:19434 EP_NO: 12746 FS_HLM: 1.085 Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Still no flap gate on pipe end but i believe the LS inlet is high enough to not allow water to flow through pipe. There is no flap gate or other device to prevent water from flowing back through the pipe at the outlet. 5/15/2013 Same as last inspection. 11/4/2013 Same as last inspection. 5/12/2014 Same as last inspection. 11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch concrete storm drain pipe through the levee 2-feet below the crown with a steel deflector at outlet. (Permit No. 12746, 1979, Garcia). FS Date: 05/14/2015					

Photo 1 of 1 : UCIP_FA_2015_5641.jpg



Outlet in channel with steel deflector over pipe outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.34	Rating **	M	Issue No.	24
LM End	1.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.171198 °	39.171198 °
				-121.735125 °	-121.735125 °
DWR ID	DWR_ST0020_01_f_2015_24				

Action/Comments

Inspector Comments: FS_ID:45230
 DS_ID:19432
 EP_NO: 15946
 FS_HLM: 1.34
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/12/2015 LS inlet is still completely blocked with soil. Inlet is completely blocked with soil. 5/15/2013 Same as last inspection. 11/4/2013 Same as last inspection. 5/12/2014 Same as last inspection. 11/17/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 12-inch CMP drain line through the levee 2-feet below the crown encased in concrete with flap gate on water side.
 Permit No. 15946 (1992) Design drawings available in permit.
 FS Date: 05/14/2015

LM Start	1.34	Rating **	M	Issue No.	24 (cont)
LM End	1.34	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_5642.jpg



Soil filled inlet on LS of crown.

Photo 2 of 3 : UCIP_FA_2015_5643.jpg



Flap gate and pipe at canal.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.34	Rating **	M	Issue No.	24 (cont)
LM End	1.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.171198 °	39.171198 °
				-121.735125 °	-121.735125 °
DWR ID	DWR_ST0020_01_f_2015_24				
Action/Comments					
Inspector Comments: FS_ID:45230					
DS_ID:19432					
EP_NO: 15946					
FS_HLM: 1.34					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5644.jpg



Coated CMP at outlet.

LM Start	1.67	Rating **	U	Issue No.	6
LM End	1.67	Issue Type +	Ma	Location *	WS
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.171128 °	39.171128 °
				-121.729235 °	-121.729235 °
DWR ID	DWR_NA0020_01_s_2012_6				
Action/Comments					
Inspector Comments: Sutter Yard needs to repair the erosion before winter.					

Photo 1 of 2 : FA_2015_ST0020_213_6_20150910_00003.jpg



Repair the erosion along the waterside slope.

LM Start	1.67	Rating **	U	Issue No.	6 (cont)
LM End	1.67	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_ST0020_213_6_20151109_00010.jpg



Repair the erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

Waterway			Bank	Unit Miles
Unit No. 02 East Levee			Left	3.05
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/23/2015 - 04/23/2015		11/04/2015 - 11/04/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

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If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	11
LM End	0.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171116 °	39.171101 °
				-121.726501 °	-121.721857 °
DWR ID	DWR_NA0020_02_s _ 2012_11				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.25	Rating **	M	Issue No.	12
LM End	0.25	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171107 °	39.171107 °
				-121.722069 °	-121.722069 °
DWR ID	DWR_NA0020_02_s _ 2012_12				
Action/Comments					
Garbage					
Inspector Comments: Tires					

Photo 1 of 1 : FA_2015_ST0020_214_12_20150910_00009.jpg



View of the tires along the W/S toe.

LM Start	0.26	Rating **	M	Issue No.	9
LM End	0.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171101 °	39.171101 °
				-121.721856 °	-121.721856 °
DWR ID	DWR_NA0020_02_s _ 2012_9				
Action/Comments					
Debris					

Photo 1 of 1 : FA_2015_ST0020_214_9_20150910_00007.jpg



View of the debris along the L/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	0.39	Rating **	M	Issue No.	39
LM End	0.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.171067 °	39.171067 °
				-121.719217 °	-121.719217 °
DWR ID	DWR_ST0020_02_f_2015_39				

Action/Comments

Inspector Comments: FS_ID:45244
 DS_ID:19425
 EP_NO: N/A
 FS_HLM: 0.39
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/12/2015 Abandoned crossing. Pipe and pump abandoned. Pipe should be removed or properly abandoned. 5/15/2013 Same as last inspection. 11/4/2013 Same as last inspection. 5/12/2014 Same as last inspection. 11/17/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 8-inch iron irrigation pipe through the levee 2-feet below crown. 7.5 HP Pump in canal. Originally included in O+M manual 1953. See As-builts Dwg. 50-10-2816.
 FS Date: 05/14/2015

LM Start	0.39	Rating **	M	Issue No.	39 (cont)
LM End	0.39	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_3513.jpg



View of pipe from unprotected side of levee.

Photo 2 of 3 : UCIP_FA_2015_3514.jpg



Pump platform on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	0.39	Rating **	M	Issue No.	39 (cont)
LM End	0.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.171067 °	39.171067 °
				-121.719217 °	-121.719217 °
DWR ID	DWR_ST0020_02_f_2015_39				
Action/Comments					
Inspector Comments: FS_ID:45244 DS_ID:19425 EP_NO: N/A FS_HLM: 0.39 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3515.jpg



Pipe on LS slope.

LM Start	0.55	Rating **	M	Issue No.	2
LM End	2.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171002 °	39.170507 °
				-121.716293 °	-121.676212 °
DWR ID	DWR_NA0020_02_s_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove the vegetation from both slopes.					

Photo 1 of 2 : FA_2015_ST0020_214_2_20150910_00002.jpg



View of the vegetation on both slopes.

LM Start	0.55	Rating **	M	Issue No.	2 (cont)
LM End	2.72	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_ST0020_214_2_20151109_00014.jpg



View of the vegetation on both slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	0.74	Rating **	M	Issue No.	38
LM End	0.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170989 °	39.170989 °
				-121.712650 °	-121.712650 °
DWR ID	DWR_ST0020_02_f_2015_38				
Action/Comments					
Inspector Comments: FS_ID:45245					
DS_ID:19426					
EP_NO: N/A					
FS_HLM: 0.739					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_3516.jpg



Concrete base along WS toe.

LM Start	0.74	Rating **	M	Issue No.	38 (cont)
LM End	0.74	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3517.jpg



Powerpole on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	0.74	Rating **	M	Issue No.	38 (cont)
LM End	0.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170989 °	39.170989 °
				-121.712650 °	-121.712650 °
DWR ID	DWR_ST0020_02_f_2015_38				
Action/Comments					
Inspector Comments: FS_ID:45245					
DS_ID:19426					
EP_NO: N/A					
FS_HLM: 0.739					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3518.jpg



Concrete standpipe on LS shoulder.

LM Start	1.43	Rating **	M	Issue No.	3
LM End	1.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170782 °	39.170817 °
				-121.700167 °	-121.698203 °
DWR ID	DWR_NA0020_02_s_2012_3				
Action/Comments					
Debris					
Inspector Comments: Remove the broken concrete.					

Photo 1 of 2 : FA_2015_ST0020_214_3_20150910_00003.jpg



View of the piles of broken concrete.

LM Start	1.43	Rating **	M	Issue No.	3 (cont)
LM End	1.55	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_ST0020_214_3_20151109_00015.jpg



View of the pile of broken concrete.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.54	Rating **	M	Issue No.	37
LM End	1.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170847 °	39.170847 °
				-121.697888 °	-121.697888 °
DWR ID	DWR_ST0020_02_f_2015_37				
Action/Comments					
Inspector Comments: FS_ID:45250					
DS_ID:19423					
EP_NO: N/A					
FS_HLM: 1.54					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 2 : UCIP_FA_2015_3559.jpg



Pipe with flapgate at outlet on WS slope.

LM Start	1.54	Rating **	M	Issue No.	37 (cont)
LM End	1.54	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2015_3560.jpg



Burried inlet 30 feet from LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.54	Rating **	M	Issue No.	4
LM End	1.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.170800 °	39.170702 °
				-121.698105 °	-121.690788 °
DWR ID	DWR_NA0020_02_s _ 2012_4				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Monitor the erosion along the waterside slope.					

Photo 1 of 2 : FA_2015_ST0020_214_4_20150910_00004.jpg



View of the erosion along the waterside slope.

LM Start	1.54	Rating **	M	Issue No.	4 (cont)
LM End	1.93	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_ST0020_214_4_20151109_00016.jpg



View of the erosion along the waterside slope.

LM Start	1.74	Rating **	M	Issue No.	36
LM End	1.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170832 °	39.170832
				-121.694174 °	-121.694174
DWR ID	DWR_ST0020_02_f _ 2015_36				
Action/Comments					
Inspector Comments: FS_ID:45252					
DS_ID:20122					
EP_NO: N/A					
FS_HLM: 1.742					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 1 : UCIP_FA_2015_3561.jpg



HDPE pipe on upstream side of aluminum pipe shown in picture.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.74	Rating **	M	Issue No.	35
LM End	1.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170832 °	39.170832 °
				-121.694174 °	-121.694174 °
DWR ID	DWR_ST0020_02_f_2015_35				

Action/Comments

Inspector Comments: FS_ID:45253
 DS_ID:20119
 EP_NO: N/A
 FS_HLM: 1.742
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for crossing.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 5-inch aluminum storm drain pipe through the levee 1-foot below the crown. Flap gate on water side with concrete headwall block on LS.
 FS Date: 05/14/2015

LM Start	1.74	Rating **	M	Issue No.	35 (cont)
LM End	1.74	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_3564.jpg



Concrete headwall on LS shoulder.

Photo 2 of 2 : UCIP_FA_2015_3565.jpg



pipe with flap gate on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	33
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170806 °	39.170806 °
				-121.693769 °	-121.693769 °
DWR ID	DWR_ST0020_02_f_2015_33				
Action/Comments					
Inspector Comments: FS_ID:45255					
DS_ID:20121					
EP_NO: N/A					
FS_HLM: 1.764					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 1 : UCIP_FA_2015_3876.jpg



HDPE pipe on WS shoulder.

LM Start	1.76	Rating **	M	Issue No.	34
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170806 °	39.170806 °
				-121.693769 °	-121.693769 °
DWR ID	DWR_ST0020_02_f_2015_34				
Action/Comments					
Inspector Comments: FS_ID:45254 DS_ID:20120 EP_NO: N/A FS_HLM: 1.764 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for crossing.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 5-inch aluminum storm drain pipe through the levee 1-foot below the crown. Flap gate on water side with concrete headwall block on LS. FS Date: 05/14/2015					

Photo 1 of 2 : UCIP_FA_2015_3562.jpg



Concrete headwall on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	34 (cont)
LM End	1.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170806 °	39.170806 °
				-121.693769 °	-121.693769 °
DWR ID	DWR_ST0020_02_f_2015_34				

Action/Comments					
Inspector Comments: FS_ID:45254 DS_ID:20120 EP_NO: N/A FS_HLM: 1.764 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for crossing.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 5-inch aluminum storm drain pipe through the levee 1-foot below the crown. Flap gate on water side with concrete headwall block on LS. FS Date: 05/14/2015					

Photo 2 of 2 : UCIP_FA_2015_3563.jpg



Pipe and flap gate on WS shoulder.

LM Start	1.92	Rating **	M	Issue No.	5
LM End	2.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171104 °	39.171104 °
				-121.718880 °	-121.718876 °

Action/Comments					
Equipment					

Photo 1 of 1 : FA_2015_ST0020_214_5_20150910_00005.jpg



View of the equipment and buildings next to the landside berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.93	Rating **	U	Issue No.	26
LM End	1.93	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170743 °	39.170743
				-121.690644 °	-121.690644
DWR ID	DWR_ST0020_02_s_2014_26				
Action/Comments					
Pipe					

Photo 1 of 1 : FA_2015_ST0020_214_26_20150910_00012.jpg



View of the unauthorized pipe going through the crown of the levee.

LM Start	1.94	Rating **	M	Issue No.	32
LM End	1.94	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170771 °	39.170771 °
				-121.690631 °	-121.690631 °
DWR ID	DWR_ST0020_02_f_ 2015_32				
Action/Comments					
Inspector Comments: FS_ID:45257					
DS_ID:20123					
EP_NO: N/A					
FS_HLM: 1.935					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for crossing.5/15/2013 Flexible pipe has been replaced with 6.5 inch steel with flap gate on WS. Erosion under WS outlet.5/22/2013 Erosion under pipe outlet has been repaired. Bank lined with rock to prevent future erosion.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 7-inch flexible HDPE storm drain pipe through the levee 1-foot below the crown.					
FS Date: 05/14/2015					

Photo 1 of 3 : UCIP_FA_2015_3870.jpg



Outlet for crossing on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.94	Rating **	M	Issue No.	32 (cont)	
LM End	1.94	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.170771 °	39.170771 °	
				-121.690631 °	-121.690631 °	
DWR ID	DWR_ST0020_02_f_2015_32					
Action/Comments						
Inspector Comments: FS_ID:45257 DS_ID:20123 EP_NO: N/A FS_HLM: 1.935 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for crossing.5/15/2013 Flexible pipe has been replaced with 6.5 inch steel with flap gate on WS. Erosion under WS outlet.5/22/2013 Erosion under pipe outlet has been repaired. Bank lined with rock to prevent future erosion.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 7-inch flexible HDPE storm drain pipe through the levee 1-foot below the crown. FS Date: 05/14/2015						

Photo 2 of 3 : UCIP_FA_2015_3871.jpg



Inlet and signage for crossing on LS shoulder.

Photo 3 of 3 : UCIP_FA_2015_3872.jpg



Pipe end with grate on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.95	Rating **	M	Issue No.	6
LM End	1.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.170775 °	39.170775
				-121.691252 °	-121.691255
DWR ID	DWR_NA0020_02_s _ 2012_6				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2015_ST0020_214_6_20150910_00006.jpg



View of the erosion along the W/S slope.

LM Start	1.97	Rating **	U	Issue No.	27
LM End	1.97	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170777 °	39.170777 °
				-121.689820 °	-121.689820 °
DWR ID	DWR_ST0020_02_s _ 2014_27				
Action/Comments					
Pipe					

Photo 1 of 1 : FA_2015_ST0020_214_27_20150910_00013.jpg



View of the unauthorized pipe going through the crown of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.98	Rating **	M	Issue No.	31
LM End	1.98	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170754 °	39.170754 °
				-121.689815 °	-121.689815 °
DWR ID	DWR_ST0020_02_f_2015_31				
Action/Comments					
Inspector Comments: FS_ID:45258 DS_ID:20124 EP_NO: N/A FS_HLM: 1.979 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for this crossing.5/15/2013 Flexible pipe has been replaced with 6.5 inch steel with flap gate on WS outlet. Erosion under WS outlet.5/22/2013 Erosion under pipe outlet has been repaired and bank lined with rock to prevent future erosion.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 7-inch flexible HDPE storm drain pipe through the levee 1-foot below the crown. FS Date: 05/14/2015					

Photo 1 of 3 : UCIP_FA_2015_3873.jpg



Pipe on LS shoulder.

Photo 2 of 3 : UCIP_FA_2015_3874.jpg



Pipe on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	1.98	Rating **	M	Issue No.	31 (cont)
LM End	1.98	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170754 °	39.170754
				-121.689815 °	-121.689815
DWR ID	DWR_ST0020_02_f_2015_31				
Action/Comments					
Inspector Comments: FS_ID:45258					
DS_ID:20124					
EP_NO: N/A					
FS_HLM: 1.979					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3875.jpg



LS intake with grate.

LM Start	2.02	Rating **	M	Issue No.	17
LM End	2.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.170756 °	39.170756 °
				-121.689841 °	-121.689841 °
DWR ID	DWR_NA0020_02_s_2013_17				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Repair the erosion along the waterside slope.					

Photo 1 of 1 : FA_2015_ST0020_214_17_20150910_00010.jpg



View of the erosion along the waterside slope.

LM Start	2.02	Rating **	U	Issue No.	18
LM End	2.02	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170756 °	39.170756 °
				121.689840 °	121.689840 °
DWR ID	DWR_NA0020_02_s_2013_18				
Action/Comments					
Pipe					
Inspector Comments: View of an unauthorized pipe going through the crown of the levee.					

Photo 1 of 1 : FA_2015_ST0020_214_18_20150910_00011.jpg



View of the unauthorized pipe going through the crown of the levee.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	2.05	Rating **	M	Issue No.	30
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170708 °	39.170708 °
				-121.688572 °	-121.688572 °
DWR ID	DWR_ST0020_02_f_2015_30				

Action/Comments

Inspector Comments: FS_ID:45261
 DS_ID:20125
 EP_NO: N/A
 FS_HLM: 2.045
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for this crossing.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection.
 FIELD_STRUCT_DESC: Fiber optic line throught the levee at unknown depth crossing on east side of Township road bridge.
 FS Date: 05/14/2015

LM Start	2.05	Rating **	M	Issue No.	30 (cont)
LM End	2.05	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_3877.jpg



Closeup of marker.

Photo 2 of 2 : UCIP_FA_2015_3878.jpg



Marker on east side of N Township Drive, south of interceptor.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	2.05	Rating **	M	Issue No.	29
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170708 °	39.170708 °
				-121.688566 °	-121.688566 °
DWR ID	DWR_ST0020_02_f_2015_29				
Action/Comments					
Inspector Comments: FS_ID:45262					
DS_ID:20126					
EP_NO: N/A					
FS_HLM: 2.046					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	2.05	Rating **	M	Issue No.	29 (cont)
LM End	2.05	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3879.jpg



gasline marker.

Photo 2 of 3 : UCIP_FA_2015_3880.jpg



Gasline marker on east side of N Township Road North of interceptor

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	2.05	Rating **	M	Issue No.	29 (cont)	
LM End	2.05	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.170708 °	39.170708	
				-121.688566 °	-121.688566	
DWR ID	DWR_ST0020_02_f_2015_29					
Action/Comments						
Inspector Comments: FS_ID:45262						
DS_ID:20126						
EP_NO: N/A						
FS_HLM: 2.046						
Repair Type: Non-Urgent						
Crossing Status: Found						

Photo 3 of 3 : UCIP_FA_2015_3881.jpg



Gasline marker on east side of N Township Road south of interceptor

LM Start	2.05	Rating **	M	Issue No.	28
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170639 °	39.170639
				-121.688445 °	-121.688445
DWR ID	DWR_ST0020_02_f_2015_28				
Action/Comments					
Inspector Comments: FS_ID:45263 DS_ID:20127 EP_NO: N/A FS_HLM: 2.053 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for this crossing.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch asphalt coated corrugated metal storm drain pipe through the levee 6-feet below the crown. Flap gate on water side. FS Date: 05/14/2015					

Photo 1 of 3 : UCIP_FA_2015_3882.jpg



Flap gate on WS slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	2.05	Rating **	M	Issue No.	28 (cont)
LM End	2.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.170639 °	39.170639 °
				-121.688445 °	-121.688445 °
DWR ID	DWR_ST0020_02_f_2015_28				

Action/Comments

Inspector Comments: FS_ID:45263
 DS_ID:20127
 EP_NO: N/A
 FS_HLM: 2.053
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 5/12/2015 Crossing appears in good condition. No noticeable issues to report.No permit identified for this crossing.5/15/2013 Same as last inspection.11/4/2013 Same as last inspection.5/12/2014 Same as last inspection.11/17/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 18-inch asphalt coated corrugated metal storm drain pipe through the levee 6-feet below the crown. Flap gate on water side.
 FS Date: 05/14/2015

LM Start	2.05	Rating **	M	Issue No.	28 (cont)
LM End	2.05	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3912.jpg



Location of pipe on LS toe.

Photo 3 of 3 : UCIP_FA_2015_3913.jpg



Pipe on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	11/04/2015 11/04/2015	Bob Duffey

LM Start	2.71	Rating **	M	Issue No.	10
LM End	2.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170548 °	39.170548 °
				-121.675970 °	-121.675970 °
DWR ID	DWR_NA0020_02_s_2012_10				
Action/Comments					
Material					
Inspector Comments: Remove the lumber, garbage and equipment from the landside toe.					

Photo 1 of 1 : FA_2015_ST0020_214_10_20150910_00008.jpg



View of the material, garbage and equipment along the landside toe

LM Start	2.95	Rating **	M	Issue No.	1
LM End	2.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170598 °	39.170598 °
				-121.671807 °	-121.671807 °
DWR ID	DWR_ST0020_02_f_2014_1				
Action/Comments					
Material					
Inspector Comments: Remove the concrete from the landside toe.					

Photo 1 of 1 : FA_2015_ST0020_214_1_20150910_00001.jpg



View of the concrete along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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